

Controls & Indicators



Align arrow with dot and push connector until it locks.



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Align battery with battery well and push battery into place.



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X Series[®] Quick Reference Guide



Changing Patient Mode

- Press A to highlight the patient mode field at the top of the display. Press •.
- 2. Press 🕜 & 🕓 to highlight correct patient mode. Press 💽

Neonate: Birth through 28 days, or 44 weeks gestational

Pediatric: 29 days through 12 years

Adult: 12 years or greater

Changing Screen Views

Press 🛞 to cycle through the different screens.



Waveform Screen

Trends Screen

Large Numerics Screen

Note: 똀 also acts as a Home key while a menu is displayed.

Changing Display Brightness

Press 🔁 & 💽 to cycle through the screen brightness options.



Taking a Monitor Snapshot

Press (1) to take a monitor snapshot. The unit records all waveforms for 12 seconds before and after pressing the button, and stores the numeric data on display when the button is pressed.



ECG Monitoring





Changing the Waveform Gain

- 1. Press $\land \& \lor$ to highlight the Gain Label above the waveform. Press |
- 2. Press [] & 🕓 to highlight the desired waveform size. Press 🛛 🔹



12:34:56

06/06/2011

Changing the ECG Sweep Speed

- 1. Press [] & 🔄 to highlight the HR numeric. Press [•
- 2. Press \sqrt{s} to highlight the ECG Sweep Speed. Press •
- 3. Press 🖍 & 🔄 to highlight the desired sweep speed. Press



12-Lead ECG Monitoring

Apply ECG electrodes.



Limb Lead Electrode Placement



V-Lead Electrode Placement

Acquiring a 12-Lead ECG Snapshot

- 1. Press 12 to enter 12-lead mode.
- Check for a good quality signal and ensure all leads are displayed.
- 3. Press 🖳
- Keep the patient still during the 10-second acquisition period.



Reviewing a Stored 12-Lead Snapshot

- 1. Press 🎚 to display the 12-Lead Review menu.
- 2. Press 🕜 & 🍤 to highlight the desired 12-lead snapshot. Press 💽.

Changing Displayed Leads in a 12-Lead Snapshot

Press 🔛 to change the displayed leads for a 12-lead snapshot.

Printing a 12-Lead Snapshot

Press 💼 to print the displayed 12-lead snapshot.

X Series[®] Quick Reference Guide

Preparing for NIBP Monitoring

- 1. Select the correct size cuff.
- 2. Attach the cuff to the NIBP hose.
- 3. Attach the hose to the X Series unit.
- 4. Apply the cuff to the patient's limb.
- 5. Place the limb at the same level as the patient's heart.
- 6. Verify the correct patient mode on the X Series unit.



Single Lumen Hose Connection

Initiating an NIBP Reading

1. Press 💓 to initiate a manual NIBP reading.

Setting Up Automatic NIBP Readings

- 1. Press 🖍 & 🕟 to highlight the NIBP numeric. Press •.
- 2. Press 5 to highlight NIBP Mode. Press •
- 3. Press 🥕 & 🍉 to toggle to Auto Mode. Press •.

Lower		Upper					
75	Δ	220	l i i i i i i i i i i i i i i i i i i i				
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Start Turbo	Cuf						
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*							
	75 35 50 Start Turbo	75 A 35 A 50 A Manual 5 min On Start TurboCuf	75 220 35 110 50 120 Manual 5 min On 0				

Changing the NIBP Auto Interval

- 1. Press 🜈 & 🌭 to highlight the NIBP numeric. Press 💽
- 2. Press A to highlight NIBP Auto Mode Interval (mode must be set to Auto). Press •.
- 3. Press 🌈 & 🕟 to highlight desired interval. Press 💽.



Dual Lumen Hose Connection







SpO₂ Monitoring (and SpCO and SpMet if equipped)

- 1. Connect the appropriate sensor cable to the X Series unit.
- 2. Apply probe to patient.

The pleth waveform and oxygen saturation value will automatically appear on the screen when a signal has been detected.



SpO₂ Probe Connection

Changing the Waveform Gain

- 1. Press 🕜 & 🕓 to highlight the Gain Label above the pleth waveform. Press •.
- Press & S to highlight the desired waveform size. Press •.



Removing the Pleth Waveform

- 1. Press 🖍 & 🍤 to highlight the Source Label above the pleth waveform. Press •.
- 2. Press b to highlight **Remove**. Press •.



Note: You can add the pleth waveform back to the display by selecting **Insert** from the Source Label menu or by reconnecting the sensor to the X Series unit and the patient.



Connecting the CO₂ Sampling Line

- 1. Slide open the CO₂ inlet port cover on the X Series unit.
- 2. Insert the fitting at end of the sampling line into the inlet port.
- 3. Rotate the fitting clockwise to tighten.
- 4. Attach sampling line to patient or endotracheal tube.



Slide open door & insert fitting



Rotate fitting to tighten

Starting CO₂ Monitoring

Press $[co_2]$ to initiate CO_2 monitoring.

Note: A green LED appears when CO_2 is on, and the unit automatically displays the capnogram and the EtCO₂ value.



Changing the Waveform Scale

 Press & stop to highlight the Scale Label above the CO₂ waveform. Press .

Press & stop to highlight the desired waveform size.
 Press •.



Changing the CO₂ Sweep Speed

1. Press \frown & \bigcirc to highlight the CO₂ numeric. Press \bigcirc

2. Press 🕓 to highlight the CO₂/Resp Sweep Speed. Press 💽

3. Press 📝 & 🌭 to highlight the desired sweep speed. Press 💽



Enabling Individual Alarms & Setting Alarm Limits

- 1. Press A to highlight the parameter label for the alarm you want to set (e.g., HR/PR). Press •.
- 2. Press
 &
 solve to highlight the desired parameter alarm (e.g., HR/PR Alarm). Press
 .
- 3. Press 🕜 & 🅟 to highlight the alarm setting you want to modify (e.g., HR/PR Upper Limit Enable). Press 💿.
- 4. Press 🕜 & 🕟 to adjust the setting to the desired value (e.g., On). Press 💿.
- 5. Press 🕜 & 🍉 to highlight the alarm limit you want to modify (e.g., HR/PR Upper Limit). Press •.
- 6. Press & b to adjust the setting to the desired value (e.g., 120). Press .

Note: An alarm must be enabled (turned on) before the alarm limit can be adjusted.

	Lower		Upper	
HR/PR Alarm	50	Λ	120)
Extreme Brady/Tachy Alarms	-10		+20)
LTA Monitoring	(Off)
HR/PR Tone		Off		
HR/PR Selected Source		ECG)
Current Source		ECG		
ECG Sweep Speed		25 mm/s		

Enabling Multiple Alarms & Setting Alarm Limits

1. Press 🔼

2. Press Limits to bring up the Alarm Settings Control Panel.

3. Follow steps 2-6 above to enable alarms and set limits.

Note: When any parameter alarm limit is disabled (turned off), the message SOME ALARM LIMITS DISABLED will appear on the display.

Silencing an Active Alarm

Press 🛞 to silence an active alarm.



Performing Defibrillation

- 1. Connect therapy (MFC or OneStep[™]) cable to device.
- 2. Connect therapy cable to hands-free therapy electrodes.
- 3. Connect hands-free therapy electrodes to patient.
- 4. Press
- to select desired energy.
- 5. Press ² to charge the X Series unit.
- 6. After the X Series unit is charged, stand clear and press to deliver energy.





Disarming the Defibrillator

While the X Series unit is charging or charged, press safely disarm the energy. Changing the selected energy will also disarm the X Series unit.

Performing Synchronized Cardioversion

- 1. Press **SYNC** to activate Sync mode. Verify sync marker is placed over the R-wave.
- 2. Press
- to select desired energy.
- 3. Press free to charge the X Series unit.
- After the X Series unit is charged, stand clear then press and hold ³(7) to deliver energy.



Starting the Pacer & Changing Pacer Settings

- 1. Press (receipt to bring up the Pacer menu.
- 2. Confirm Pacer Mode and Pacer Rate.
- 3. Press 🕜 & 🌭 to highlight Start Pacer.
- 4. Press to begin pacing.
- 5. Press 🌈 & 🌭 to highlight the Pacer Output. Press 💽.
- 6. Press 🖍 & 🕟 to adjust the pacer output until capture occurs, then decrease the output to the lowest level that still maintains capture.
- 7. Press 🕲 to exit the Pacer menu.



Pausing the Pacer

- 1. Press (mere) to bring up the Pacer menu.
- 2. Press 🧪 & 🕓 to highlight **Pause Pacer**.
- 3. Press to pause the pacer.

Turning Off the Pacer

- 1. Press 🚾 to bring up the Pacer menu.
- 2. Press 🌈 & 🕟 to highlight Turn Pacer Off.
- 3. Press 💽 to turn the pacer off.



